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Monitor and Troubleshoot Across Cloud and Hybrid IT to Minimize Alert Storms

OBS1338C

Aaron Kirk

Principal Product Manager | Splunk

Yaroslav Tytar

Product Manager | Splunk





Aaron Kirk

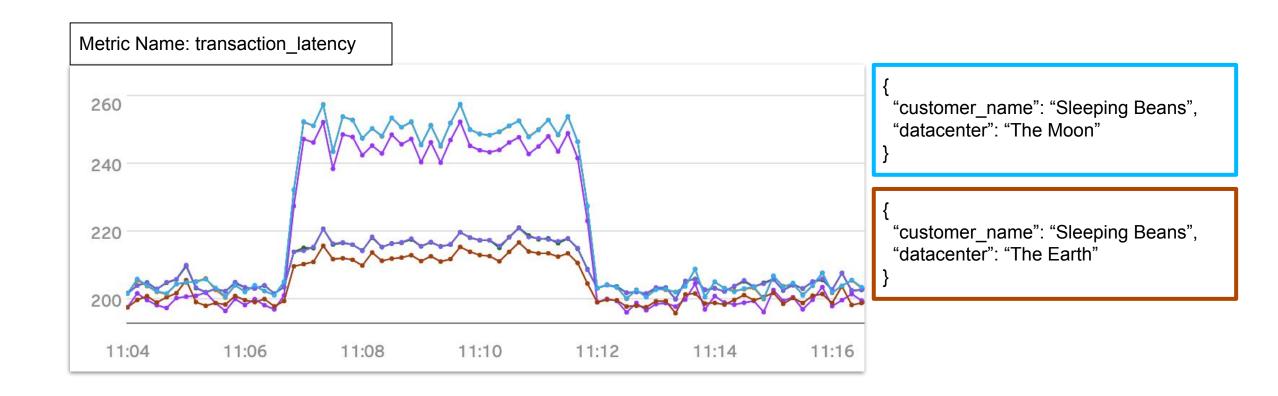
Principal PM | Splunk

Yaroslav Tytar

PM | Splunk



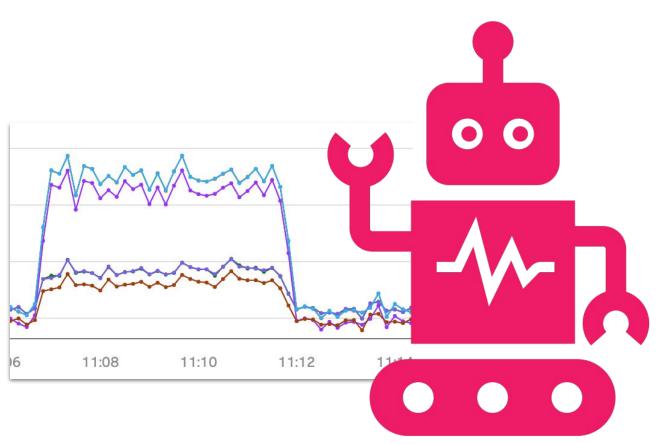
4 Unique Metric Time Series (MTS)





What is a Detector?

Your personal robot to assist with Observability

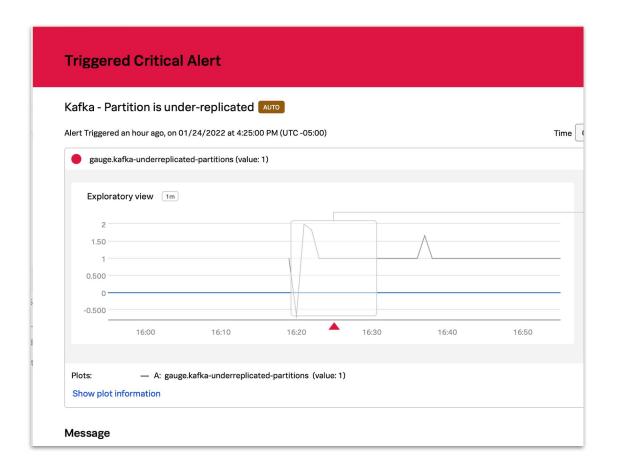


- Review data as it is received in the Splunk[®] Observability Cloud
- Decide when to alert using simple static thresholds or intelligent analytics
- Connects to outbound integration to send notifications or kickstart automation
- Super speedy!



End-to-End Workflow

- 1. Getting Data In (GDI)
- Out-of-the-box Dashboards and Detectors (AutoDetect)
- 3. Custom Dashboards and Detectors
- ... Detectors constantly evaluating new data...
- 4. Alerts on Dashboards
- Integrations notifications and webhooks
- 6. Clearing Alerts

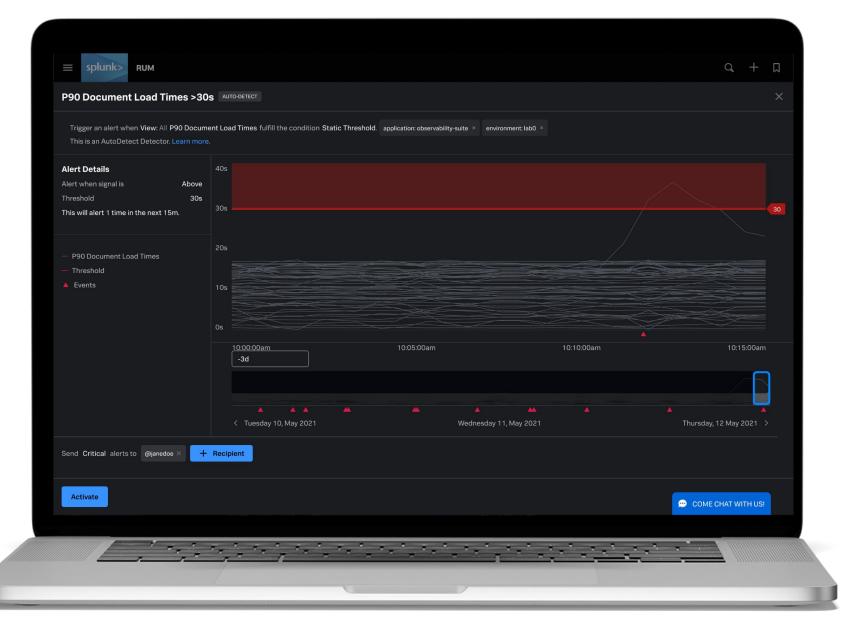


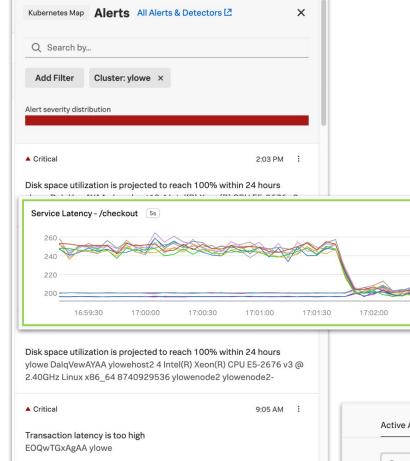


AutoDetect

Simplified onboarding with out-of-the-box alerting

- Faster TTV with OOTB problem detection for critical components
- Automatically discover anomalies in your infrastructure
- Quickly identify infrastructure state with intuitive alert integration for faster MTTR





Disk space utilization is projected to reach 100% within 24 hours ylowe EXXW0gTAcAA ylowehost10 4 Intel(R) Xeon(R) CPU E5-2676 v3

Disk space utilization is projected to reach 100% within 24 hours ylowe E1w0oU9AcAE ylowehost4 4 Intel(R) Xeon(R) CPU E5-2676 v3 @

2.40GHz Linux x86 64 8740929536 ylowenode4 ylowenode4-

@ 2.40GHz Linux x86 64 8740929536 ylowenode10 ylowenode10-

yesterday at 6:03 PM :

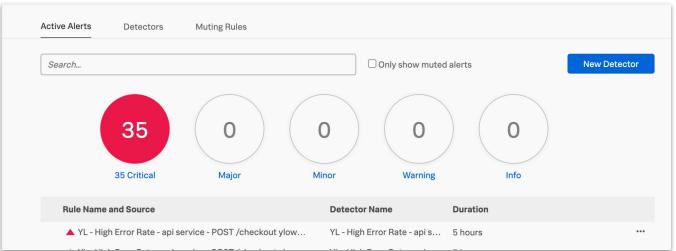
yesterday at 6:03 PM

▲ Critical

▲ Critical

Alerts in Observability

- View, search, and filter all alerts in a dedicated page
- Show related alerts in the alert sidebar
- Connect alerts to dashboards for simple in-context troubleshooting



17:04:00



Outbound Integrations

Connecting Observability to external services

Splunk On-Call

Slack

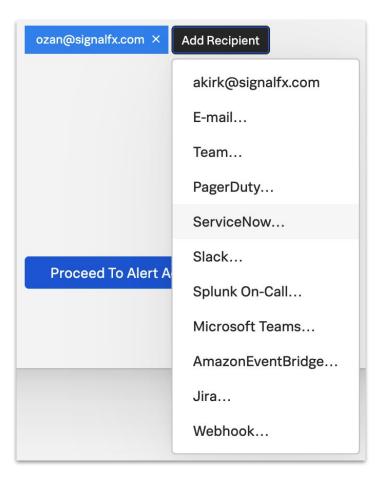
ServiceNow

PagerDuty

Jira

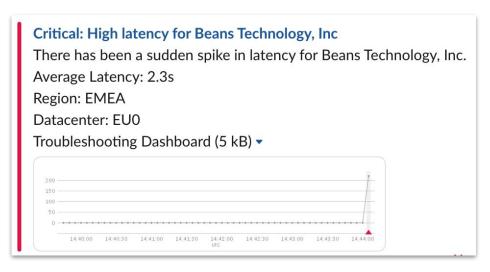
Custom Webhook

+ More



Customize the integration to pass vital context into downstream tools

Customizing the alert message and title





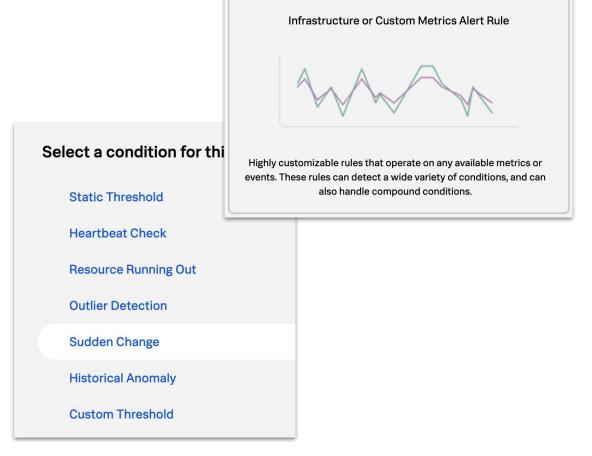
Detectors Across Observability

Infrastructure Monitoring and Custom Metrics

Get exactly the right signal

- select data
- define formulas
- aggregate data
- transform signals

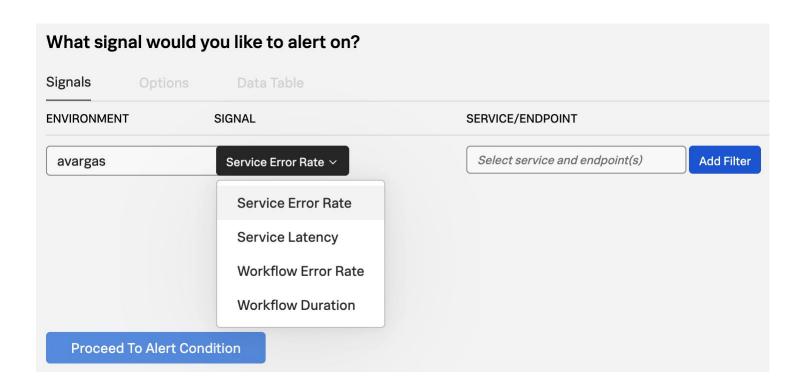
Configure alert conditions with static thresholds or select an intelligent analytics-driven algorithm





Detectors Across Observability

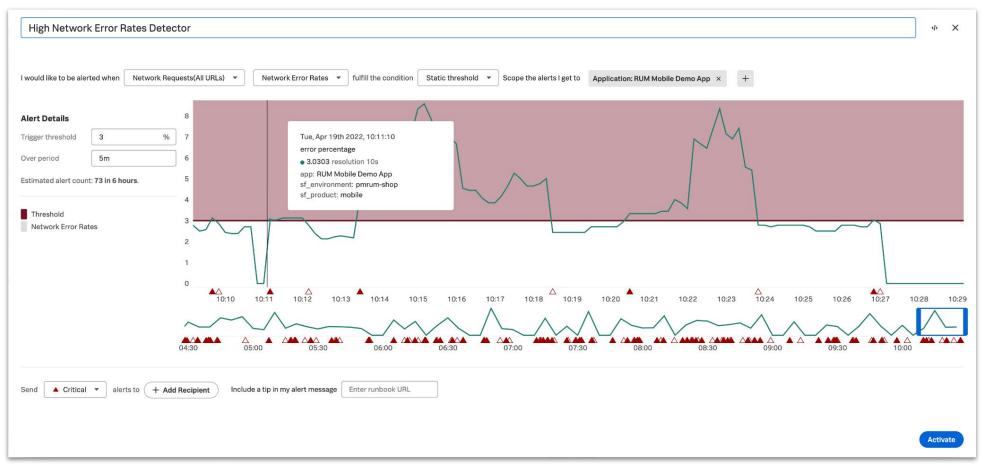
APM



- Monitor error rate and latency for your Services and Business Workflows
- Identify sudden spikes and historical anomalies for a clear indication of changes

Detectors Across Observability

Real User Monitoring and Synthetics





Best Practices for Alerting

Industry standards to ensure you alert on the things that matter

Understand your goal



Monitor symptoms of problems



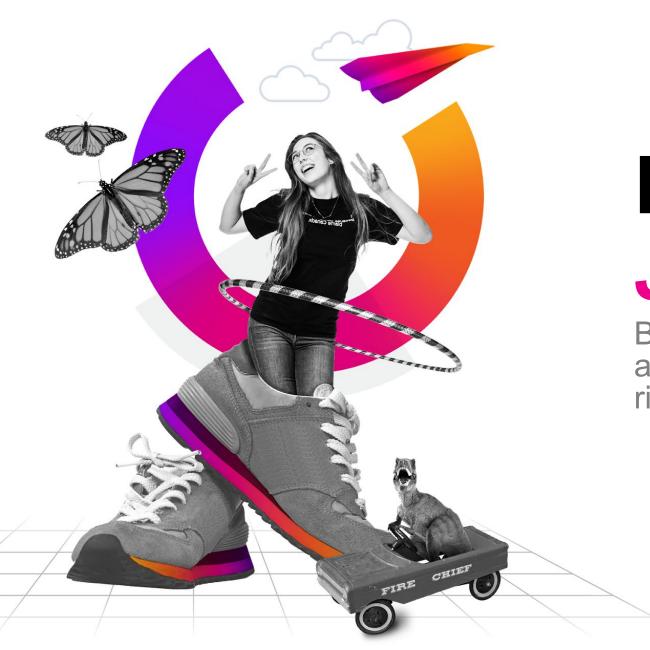
Keep it simple



Include context & next steps







Be a Detector Jedi Master

Best practices to prevent alert storms and generate the right alerts at the right time.



The Path to be a Detector Jedi Master





Understand the Force

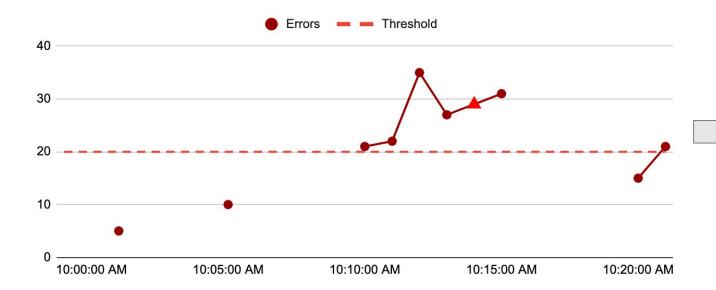
Understand your data (Resolution, Periodicity, Metadata, Aggregation)

Alerting with event-driven data

Best Practices in Data Selection - Aperiodic Data

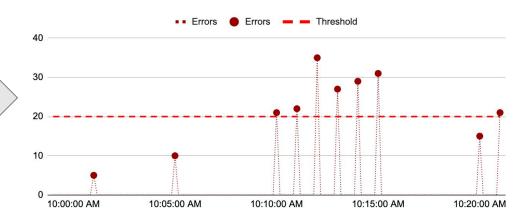
Data is sent on 1 minute interval, but only when errors occur

"Alert me when number of errors is above 20 for 5 min"



High chance alert would never be triggered!!!

Why? Because there is not enough data to determine correct resolution of the reporting metric.



If resolution determined as lower than 1m (e.g. 10s) - there is not enough data points to trigger an alert

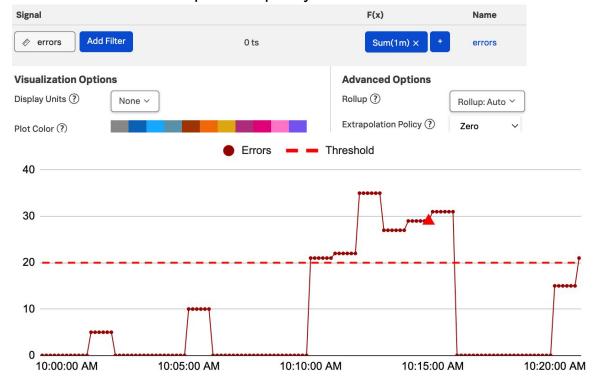


Alerting with event-driven data

Best Practices in Data Selection - Aperiodic Data

UI Solution

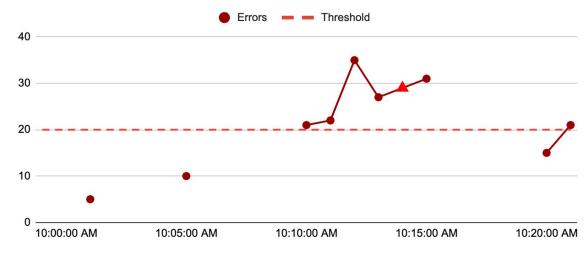
Sum over + Zero extrapolation policy



SignalFlow Solution

specify resolution in your data block

A = data('errors', resolution=60000).publish('A')





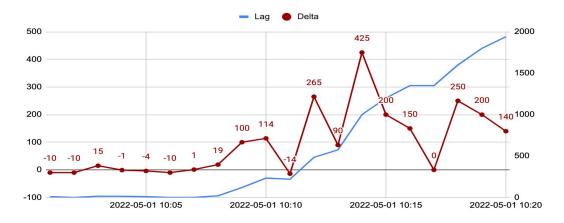
Challenge the scope

Best Practices in Data Selection

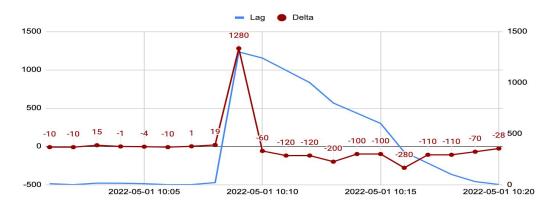
"Alert me when my kafka consumer lag is growing at least by 100 for 5 minutes"



Do I need to be alerted when the rate of growth is irregular



Do I need to be alerted on one-time spike



Aggregate with intention

Best Practices in Data Selection



Demo metric demo.trans.latency with these dimensions:

demo_host demo_customer demo_datacenter Fire an alert when the average latency of all hosts is above <value>

Fire an alert when the average latency for a particular customer is above <value>



The Path to be a Detector Jedi Master







Understand the Force

Understand your data (Resolution, Periodicity, Metadata, Aggregation)

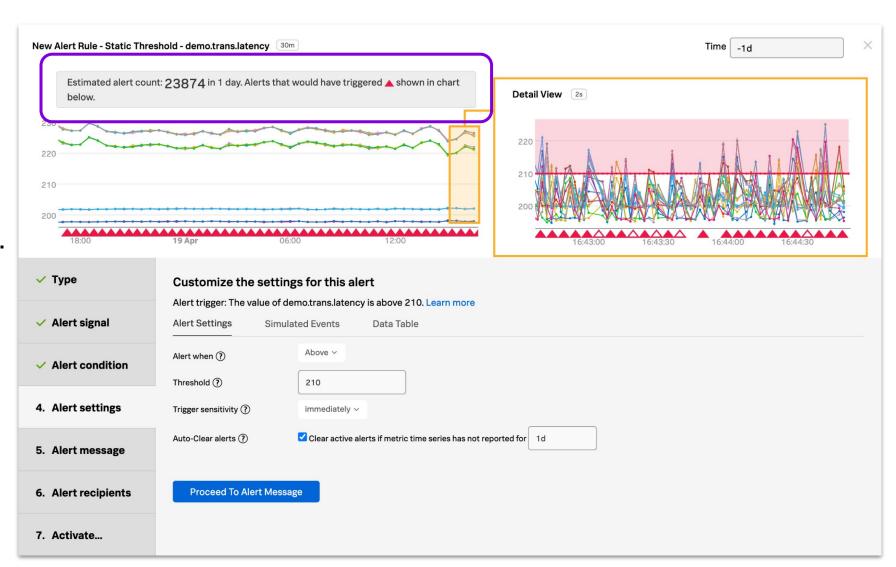
Use all available tools

Use functions available to create the right alerts (Rollup, Alert preview, trigger sensitivity, off conditions)

Alert Preview

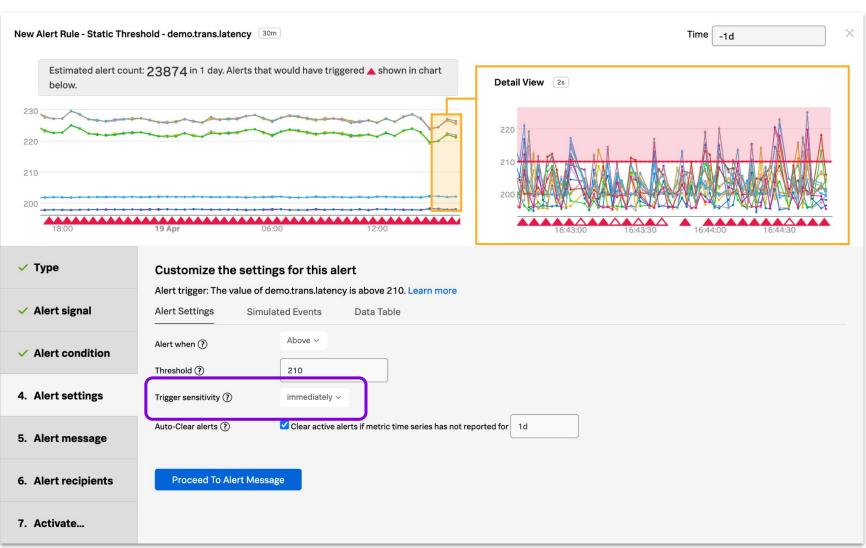
Estimate how many alerts this detector configuration will create based on historical data.

Will update whenever you change the alert settings.



Trigger Sensitivity or "Lasting"

Reduce alert noise using 'Trigger Sensitivity'



Trigger Sensitivity or "Lasting"

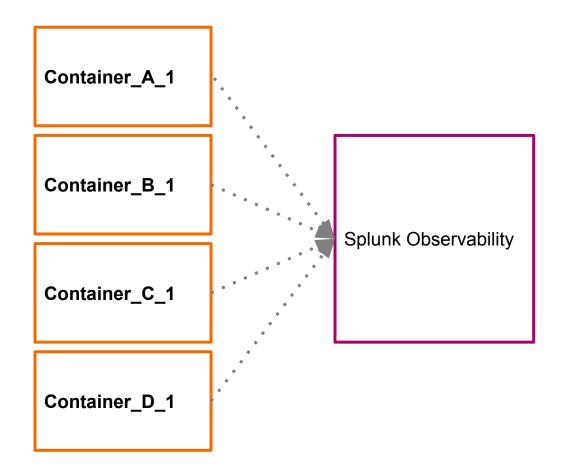
Immediately - Fire alert when signal crosses the threshold

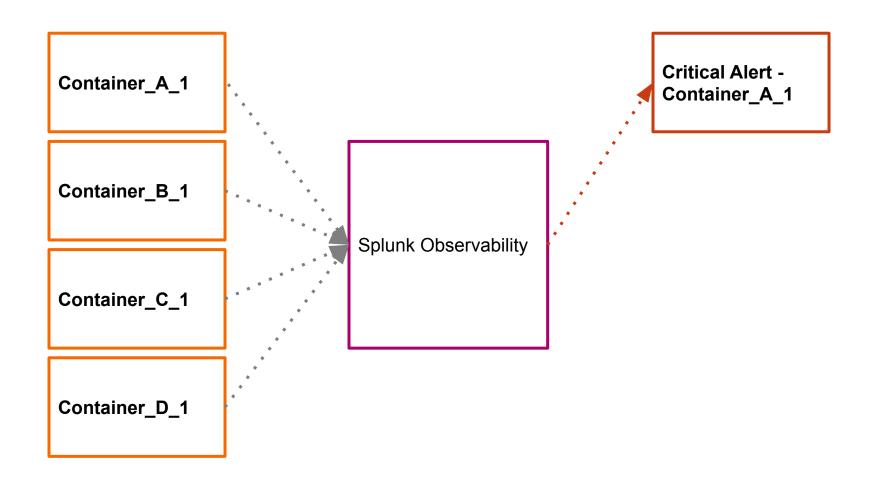
Duration - Fire alert when signal stays above threshold for <time>

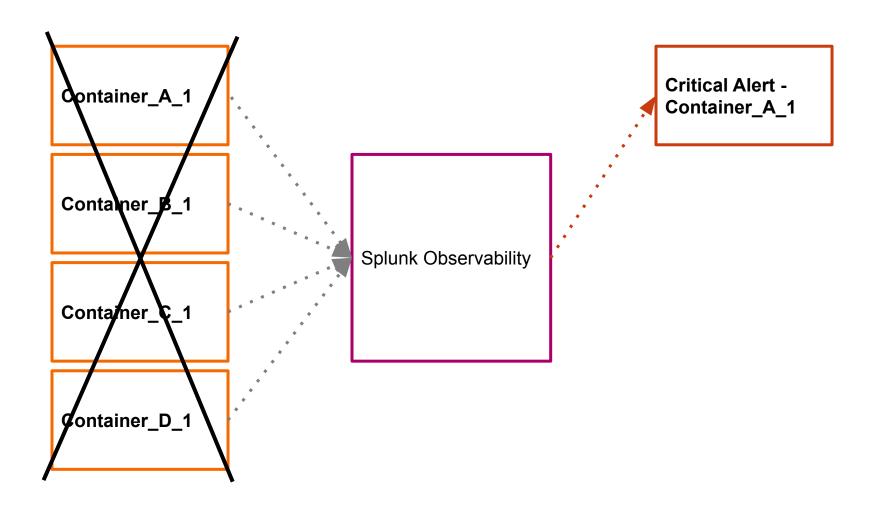
Percent of duration - Fire alert when signal stays above threshold for <percent> of <time>

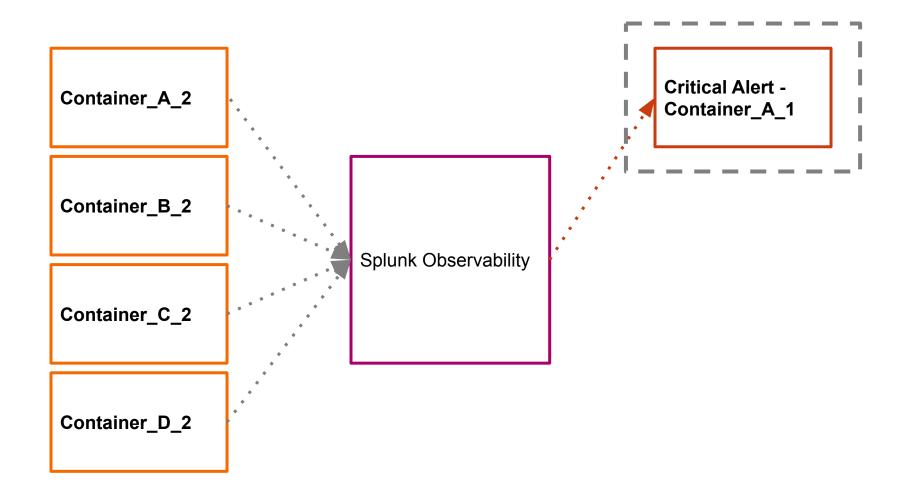


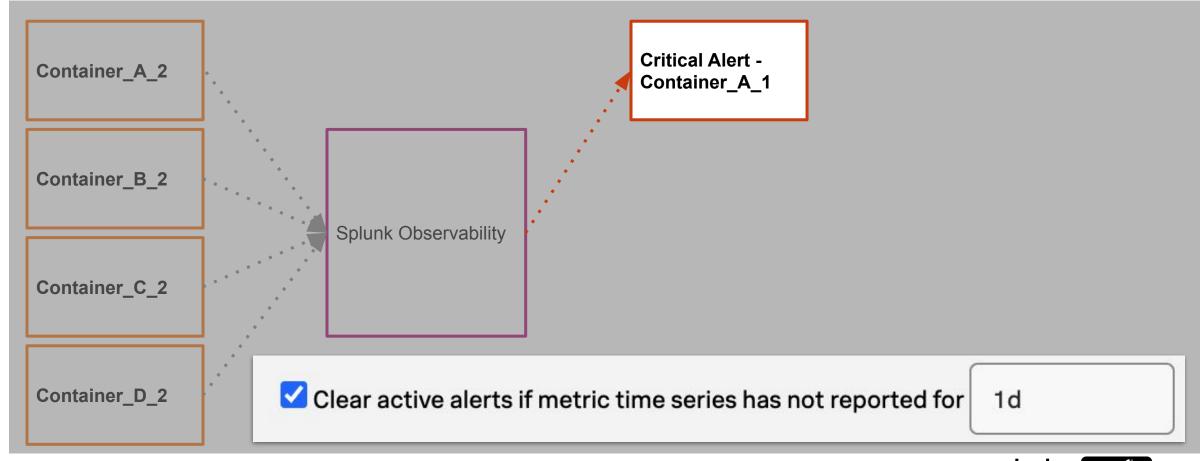












Advanced Options: Clear Conditions

Advanced option available with SignalFlow

Example:

Default - Fire an alert when CPU > 95 (Alert will clear when CPU < 95)

Explicitly define desired behavior to clear alerts

Desired - Fire an alert when CPU > 95 and clear the alert when CPU < 85

The Path to be a Detector Jedi Master









Understand the Force

Understand your data (Resolution, Periodicity, Metadata, Aggregation)

Use all available tools

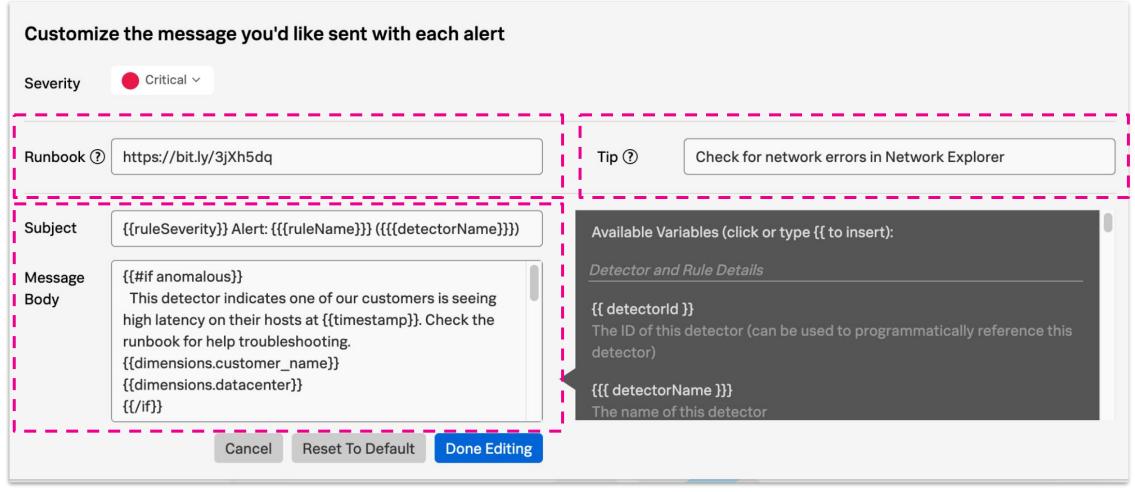
Use functions available to create the right alerts (Rollup, Alert preview, trigger sensitivity, off conditions)

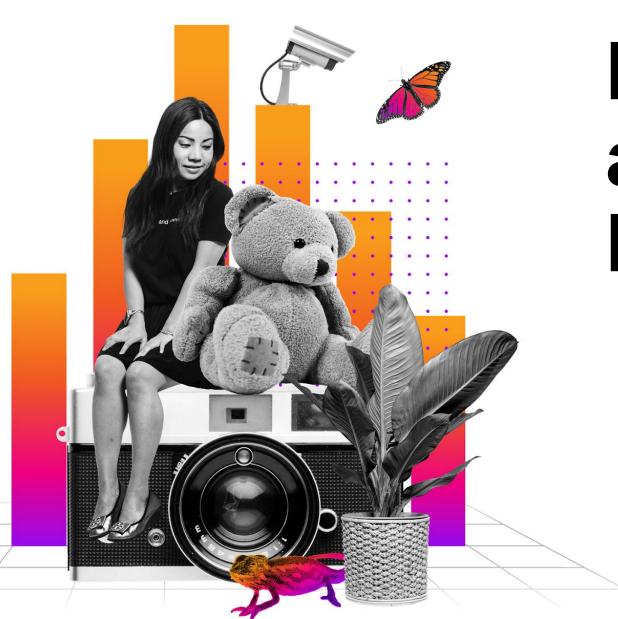
Assist and train others

Provide context to the alert responder (Tip, Runbook, Aggregation, Message and Title customization)



Giving the alert responder context





Detectors and Alerts Demo

splunk> .conf22

Thank You

